				10			20			3	0			40			50			60)
1	GCA	GGC	GCG	CCC	GAG	CCG	GCC	CCC	TAG	CCI	GCC	ATG M	GCC A	TGC C	TAC Y	ATC	TAC Y	CAG Q	CTG L	CCC	60 9
•				70			80			90		***		00	•	•	110	4	_	120	J
61	TCC	TGG	GTG	•	GAC	GAC	٠	TGC	CGC	•		GAC		•	AGC	GAG	TGG	GAC	TGG	•	120
10		W	٧	L	D	D	L	C	R	N	M	D	, A	L	S	E	W	· D	W	М	29
			1.	30 ·			140			150		٠.	11	60	·		170			180	
121 30		_	_				ATC	ACA			ACC		CTG	_		ATC	AAG		ATG	_	180
JU	E.	F	A 11	S 90	. Y	V	ı 200	,	D	L 210	1	Q	ر د	R 20	K	1	К 230	S	М	E 240	49
181	ርርር	GTG	•	•	CIC		•	ACC	CCC.	•	CTG	CIG	TGG	•	TGG		ATG	CCC.	ር ል ር	•	240
	R	٧	Q	G	٧	S	I	Ţ	R	Ε	L	Ĺ	W	W	W	G	M	R	Q	A	69
		•	2	50		,	260			270			28	30			290			300	
	_		_	_	CIT		_	CTC		_			_	CTC		_	GCT		_	ATC	300
70	1.	٧	Q	Q	L.	ν.	. D	Ĺ	L	C 770	R	Ĺ	E	40	Y	R	A 750:	Ą	Q	700	89
701	ATC	ስ ተ		10			320	COT	V11	330	100	TOT		10	CC.4		350	CCT	CAC	360	700
90	AIC	L	AAC N	W	aaa K	P	A	P	GAA E	AIL I		- C	P	ALI	P	A	TTC F	P	DAC D	TCT S	360 109
	i		37	70			380			390			4(00		4	410			420	
		AAG	CCA	GAA	AAG	CCŢ	TTG	GCA	GCT	TCT	GTA	AGA	AAG	GCT	GAG	GAT	GAA	CAG	GAA	GAG	420
110	٧	K	Р 	E	K	Р	L	A	A	S	V	R	K	A	Ε	D	Ε	Q	E	E	129
404	000	010		30	100		140	400		450	000	001		50	TOT		470 		000	480	400
130	C	CAG Q	P	V V	AGG R	AIG M	A	ACC T	F	P	G	P	GGG	S	TCT S	P	GCC A	aga R	A	CAC H	480 149
•			49	90		5	500			510			52	20			530			540	
481	CAG	CCG	GCC	III	CTC	CAG	CCT	CCT	GAA	GAA	GAT	GCC	CCT	CAT	TCC	TTG	AGA	AGC	GAC	CTC	540
150	Q	Р	A		L	Q		P	E	E	D	A	Р		S		R _.	S	D	L	169
		,	55	•			60	,		570	1.		. 58	•			590			600	
_	CCC		ICC S		GAT D	TCA S			TTC F	AGC S	ACC T	TCC S	ATT I	CCT	AAG K	CAG	GAA E	AAA K	CIT	TTG T	600 189
	•	•	61				320	,		630	•	•	64		••	•	550	••	•	660	100
601	AGC	TTG		•	GAC		•	TTC		•.	GAG	GCA		•	GTC		GCA	ACC	GAT	•	660
190		l		G				F				A	D		٧		A	T	_	D	209

FIG. 1A

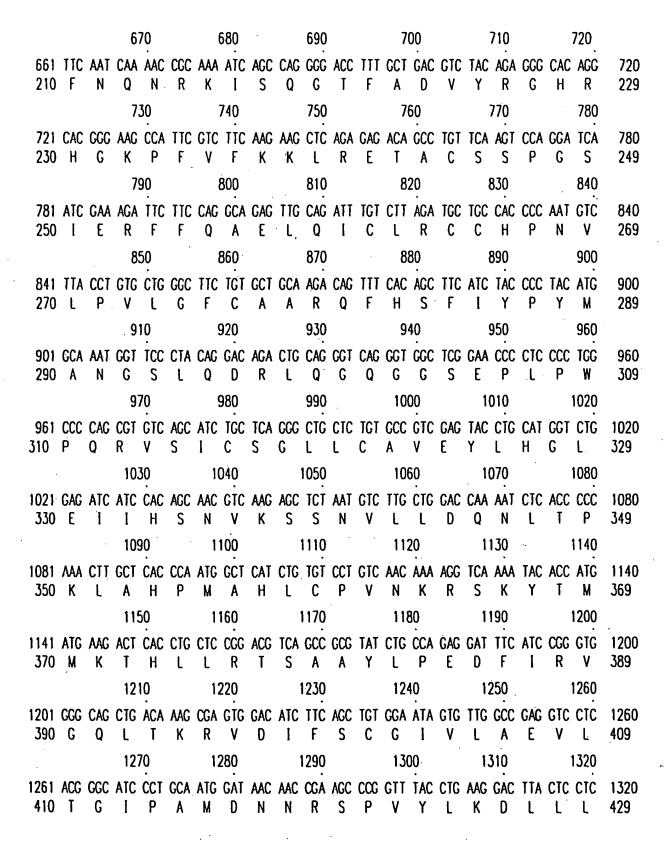


FIG. 1B

1380 1370 1330 1340 1350 1360 1321 AGT GAA ATT CCA AGC AGC ACC GCC TCG CTC TGC TCC AGG AAG ACG GGC GTG GAG AAC GTG 1380 SLCSRKTGV 449 430 S Ε I P S ST A 1420 1440 1430 1400 1410 1390 1381 ATG GCA AAG GAG ATC TGC CAG AAG TAC CTG GAG AAG GGC GCA GGG AGG CTT CCG GAG GAC G Ε 469 Ε K G A R L K Ε 1 C Q K Υ L 1470 1480 1490 1500 1450 1460 1441 TGC GCC GAG GCC CTG GCC ACG GCT GCC TGC CTG TGC CTG CGG AGG CGT AAC ACC AGC CTG 1500 Ţ 489 ATAACLC L R R R N 470 C E A L 1550 1560 1520 1530 1540 1510 1501 CAG GAG GTG TGT GGC TCT GTG GCT GCT GTG GAA GAG CGG CTC CGA GGT CGG GAG ACG TTG Ε R L R G RΕ 509 G ٧ A A V E 490 Q Ε ٧ C S 1620 1590 1600 1610 1580 1570 1561 CTC CCT TGG AGT GGG CTT TCT GAG GGT ACA GGC TCT TCT TCC AAC ACC CCA GAG GAA ACA 1620 Ε 529 G Ţ G S S S N T P S G L S Ε 1670 1680 1640 1650 1660 1630 1621 GAC GAC GTT GAC AAT TCC AGC CTT GAT GCC TCC TCC ATG AGT GTG GCA CCC TGG GCA 1680 D A S S S M S ٧ Α 549 530 D SSL ٧ D N 1720 1730 1700 1710 1690 1681 GGG GCT GCC ACC CCA CTT CTC CCC ACA GAG AAT GGG GAA GGA AGG CTG CGG GTC ATC GTG 1740 E G R L R 'A T LPI Ε N G Р L 1780 1790 1800 1750 1760 1770 1741 GGA AGG GAG GCT GAC TCC TCT GAG GCC TGT GTT GGC CTG GAG CCT CCC CAG GAT GTT 1800 589 SSSEAC GLE Р 0 E A D ٧ 570 G R 1801 ACA TAA 1806 590 T 590

FIG. 1C

				10			20			30				40			50			60	
1	GCA	CCC	CCC	CCC	GAG	CCC	GCC	CCC	TAG	CCT	CCC					ATC			CTG	_	60
1												М	A	C	Y	l	Y	Q	L	Р	9 .
				70			80			90				100			110			120	
•	TCC			CIG	_		CTG							CIC		_		GAC		ATG	120
10	S	W	V	L	D	D	Ļ	С	R	N	М	D	A	L	S	Ε	W	D	W	М	29
				30			140			150				160			170			180	
	GAG	_			TAC	GTG	ATC	ACA		CTG	ACC		CTG			ATC				GAG	180
30	Ε	F	A	S	Y	V	I	Ī	D	L	1	Q	Ł	R	K	l	K	S	М	Ε	49
				90			200			210				220			230			240	
	CCC						ATC	ACG			CTG	CTG					ATG				240
50	R	٧	Q	G	V	S	I	Ī	R	Ε	L	L	W	W	W	G	M	R	Q	Α	69
				50			260			270				280			290			300	
	_		_		CII	GTG	GAC	CTC	CTG			CTG	GAG	CIC				GCC		ATC	300
70	Ţ	٧	Q	Q	·Ĺ	V	D	L	Ĺ	C	R	· [Ε	Ĺ	Y	R	A	A	Q	I	89
				10			320			330				340			350			360	
	ATC	CTG	_				GCT		-	ATC		_		ATT				CCT	GAC	TCT	360
90	i	L	N	W.	K	Р	A,	Р	Ε.	I	R	C	Р	I	P	A	F	Р	D	S	109
			_	70			380			390				400		_	410			420	
	GTG	_		-		CCT	TTG	GCA	GCT				AAG			GAT		CAG	_	GAG	420
110	V	K	Р	E	K	Þ	L	A	A	S	٧	R	K	Α	E	D	E	Q	Ł	E	129
				30			440			450				460			470			480	
		_					CCC	ACC	III					TCC			GCC			CAC	480
130	G.	Q	ρ	۷	R	M	A	1	F	Р	G	Ρ	G	S	S	P	A	R	A	Н	149
	010	000	49				500		•••	510				520	T00	***	530			540	
	CAG		GCC		CTC		CCT						CCT		TCC	TTG			GAC	CIC	540
150	Q	Р	A	F	L	Q	Р	Р	E,	E	D	A	Ρ,	Н	S	L	R	S	D	L	169
644	000	407	55		047		560	040	***	570		T00		580		010	590		0 TT	600	
	CCC	ACI	TCG	TCT	GAT		AAG	_	TIC	AGC		TCC	ATT	CCT		CAG	_	AAA	CII	IIG	600
170	Р	ı	S	S	D ·	S	K	D	F	S	1	S	1,	Р	K	Q	E	K	L	r L	189
ėn.	ACC	TTO		004	C10		520	TTA	T00	630		004		540	OTO	040	650		CAT	660	cco
	S																			GAC	
130	3	L	A C-		D	-		F	W	S	Ε	A	_	٧	٧	Q	• •	Ţ	D	D 700	209
CC 1	TTC	AAT	67		ccc		680	100	C4C	690	100	TTT		700	0 70.	TAC	710		CAC	720	מפל
	F		CAÁ		R		ATC	AGC S		G	ACC T		_	D	V	Y	AGA R		H	AUG R	720
210	Г	14	-		Л	K .	740		Q			F	Α.	_	٧	1			п		229
721	CYC	rrr	73		TTA		740			750 CTC		CYC		760	T/T	TCA	770		CC 1	780 TCA	700
	CAÇ H		AAG K		F	V	TTC F		AAG K				ACA T	A		ICA S	AGT S		GGA		780
230	11	v			r			K	L/	L 010	R	Ε			С	3		Р	U	-	249
701			79	IU .		. (300			810				320			830	1		840	
	ATA	CAA	ACA	TTO	TTO	040	CC4	040	TTO	242	ATT	TOT	CTT	ACA	TOO	TOO	040	$\alpha \alpha \alpha$	AAT	CIC	040
250		GAA E	AGA R	TTC	TTC F	CAG Q	GCA A	GAG E	TTG	CAG Q	ATT	TGT C	CTT	AGA R	TGC C	TGC C	CAC	CCC	AAT N	GTC V	840 269

850 860 870 880 890 900 841 TTA CCT GTG CTG GGC TTC TGT GCT GCA AGA CAG TTT CAC AGC TTC ATC TAC CCC TAC ATG 900 Fi 289 V L G F C A A R Q F H S Υ 910 930 950 920 940 901 GCA AAT GGT TCC CTA CAG GAC AGA CTG CAG GGT CAG GGT GGC TCG GAC CCC CTC CCC TGG R L Q G Q GS 290 A N G S L 0G D Pι 980 990 1000 1010 970 961 CCC CAG CGT GTC AGC ATC TGC TCA GGG CTG CTC TGT GCC GTC GAG TAC CTG CAT GGT CTG 1020 SGLLCAVEY 310 P Q R V S 1 C L Н 1030 1050 1060 1070 1080 1040 1021 GAG ATC ATC CAC AGC AAC GTC AAG AGC TCT AAT GTC TTG CTG GAC CAA AAT CTC ACC CCC 1080 IIHS N V K SSNVLLDQN 1090 1100 1110 1120 1130 1140 1081 AAA CTT GCT CAC CCA ATG GCT CAT CTG TGT CCT GTC AAC AAA AGG TCA AAA TAC ACC ATG 1140 A H P M A Н L С PV NKR S K Υ T 1150 1160 1170 1180 1190 1200 1141 ATG AAG ACT CAC CTG CTC CGG ACG TCA GCC GCG TAT CTG CCA GAG GAT TTC ATC CGG GTG 1200 ΥL PΕ T H 1 L R T S A Α D F 1210 1220 1230 1250 1260 1240 1201 GGG CAG GTG ACA AAG CGA GTG GAC ATC TTC AGC TGT GGA ATA GTG TTG GCC GAG GTC CTC QVIK R V D I F S. C G I V L Α Ε 409 1270 1280 1290 1300 1310 1320 1261 ACG GGC ATC CCT GCA ATG GAT AAC AAC CGA AGC CCG GTT TAC CTG AAG GAC TTA CTC CTC 410 T G [P A M D N N R SPVYL K D 429 1340 1330 1350 1360 1370 1380 1321 AGT GAA ATT CCA AGC AGC ACC GCC TCG CTC TGC TCC AGG AAG ACG GGC GTG GAG AAC GTG 1380 S SLCSRK T G V Ε 430 S E Ī b. ST A N V 1390 1400 1410 1420 1430 1440 1381 ATG GCA AAG GAG ATC TGC CAG AAG TAC CTG GAG AAG GGC GCA GGG AGG CTT CCC GAG GAC 450 M Α K E - 1 C QK YLEKGAG R L E 469 1460 1470 1490 1450 1480 1441 TGC GCC GAG GCC CTG GCC ACG GCT GCC TGC CTG TGC CTG CGG AGG CGT AAC ACC AGC CTG 1500 L C R R 470 C Α EAL A T Α A C Ĺ R 489 1530 1520 1540 1550 1510 1501 CAG GAG GTG TGT GGC TCT GTG GCT GCT GTG GAA GAG CGG CTC CGA GGT CGG GAG ACG TTG 1560 490 Q V C G S V Α A RLRGR TL 509 1590 1570 1580 1610 1600 1561 CTC CCT TGG AGT GGG CTT TCT GAG GGT ACA GGC TCT TCT TCC AAC ACC CCA GAG GAA ACA 1620 510 L SGLSEGTG S SSN Ε T P E I 529 1630 1640 1650 1660 1670 1680 1621 GAC GAC GTT GAC AAT TCC AGC CTT GAT GCC TCC TCC ATG AGT GTG GCA CCC TGG GCA 1680 D A S S S M S V A DVDN S S L Р

			169	90		17	700			1710			172	20		17	730		. 1	1740	
1681	CCC	GCT	GCC	ACC	CCA	CTT	CTC	CCC	ACA	GAG	AAT	CCC	GAA	GGA		CTG	CCC		ATC	GTG	1740
550	G	A	A	Ţ	Р	L	L	Р	T	E	N	G	Ε		R	l	R	٧	I	٧	569
			175				760			1770			178				790			1800	
1741			_																		1800
570	G	R	Ε	A	D	S	S	S	E	A	С	V	_	L	Ε	Р	Р	Q	D	٧	589
			18				820			1830			184				350	0.40		1860	1000
1801							_													_	1860
590	Ţ	E	Ţ	S	W	Q	 	Ε	I	N	Ε	A	K		K	L	М	Ε	N	1	609
	070	070	18		010		880	0.70		1890	ATT	040	190		000		910	TCA		1920	1020
1861															G		IGA *	IGA	LLG	GAA	1920 625
610	L	L	Y	K	E	_	K	٧	D		I	Ε			U				,	1000	023
4004		100	19.		000		940	TOA		1950		ATO	196		AC A		970	A A A		1980	1980
1921	LAL	AUC			LLL			ILA				AIG			HUH			WW		2040	1300
4004	040	001	19		110		000	CAC		2010		440	202		TOT		030	CTC			2040
1981	GAG	GÇA			AAG			LAG				AAÇ			ICI		090	CIG		3000	2040
2041	100	^44	20		TTT		060	AAT		2070		CAC	208		CCT			TTA			2100
2041	AGG	GAA			111			AAI				GAU			CCI		150	IIA		2160	2100
2101	^**		21		A A C		120	CCT		2130		TTC	214		AC'A			CAT			2160
2101	CAA	AAA			ANG			CCI				ווט	220		AUA		210	UMI		2220	2100
2161	ACA	CTC	21				180	ACA		2190		CAT			CAT			CIT			2220
2101	AUA	CIG			AAA			HUH		2250		UMI	220		UMI		270	011		2280	2220
2221	∆ ∩T	ATC	22		TAA		240 CCC	CCV				ATT			CCA			GTT			2280
2221	AUT	AIG	22		IM		300	CUN		2310		AII	23		oon		330	011		2340	2200
2281	CC A	CIC			CIG			CAT				CAG			GAT			GTT			2340
2201	CON	010	23		010		360	0/11		2370		0.10	238		••••		390	• • • •		2400	
2341	GCT	GAC			CAA			ATG				ATT			GTT			III			2400
2011	001	0/10	24		0.2.		420	****		2430		••••	24				450			2460	
2401	AAA	ATG			CGC			GGC				CCA			ACT			GTG	CTG	GAA	2460
			24				480			2490				00			510			2520	
2461	TTA	CAT		-	CCA			CTG		_		ACT				TGT	TCT	CAG	TGC	AGT	2520
- :			25		,		540			2550			250				570			2580	
2521	TCT	GAC			CTC							AAT	GCC	AGA	CAC	CTA	CCC	AAG	AGC	TCT	2580
			25		•		600			2610			26				630			2640	
2581	GCA	GGC	Ш	CCA	CTG	CCT	GŤA	TTG	GAA	ATC	TTG	CAA	TTC	ACA	TAA	TTA	TTC	AGT	CAC	TGC	2640
		•	26				660			2670			26				690			2700	
2641	CTG	GTA	CCT	TTA	TCT	TCC	CAT	CCC	ATT	AAT	GTT	AGT	GTT	Ш	·TAA	TGG	AGC	. 111	TAT	TCT	2700
.•		•	27	10		. 2	720			2730			27	40		2	750			2760	
2701	GAG	ΛΛT	ATG	TGT	TCG	TCT	GTT	TGT	TTG	III	III	GAG	ACA	GAG	TCT	CAC	Ш	GTC	ACC	CAG	2760
			27				780			2790			28				810			2820	
2761	CCT	GGA	GTG	CAG	TGG	CAC	GAT	CTC	AGC	TCA	CTG	CAA	GCT	GTG	CCT	CTC	AGG	III	CAA	GTG	2820
										_	_	_									

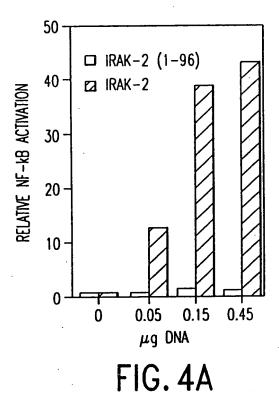
	2830	2840	2850	2860	2870	2880
2821 ATT CTC	CTG CCT CAG	CCT CCT GAG	TAG ATG GGA C	TG TAG GCA CCT	GCC ACT ATG	CCT GGC 2880
	2890	2900	2910	2920	2930	2940
2881 TAA TTT	TIG IGT III	TAG TAG AGA	CAG GGT TTC A	CC ATA TTG GCC	AGG CTG GTC	TCG AAC 2940
	2950	2960	2970	2980	2990	3000
2941 TAC TGA	CCT CGT GAT			AA AGT GTT GGG		TTG AGC 3000
	3010	3020	3030	3040	3050	3060
3001 CAC CGC	•			AT GAC TGG ATT		
			•	3100		3120
3061 AAT GCA	TTT CAT GTC			GT CAA TCA TTT		
•	3130	3140		3160	3170	3180
3121 AGT TTC	TTT GTA AGT	AAA ATA ACA	CCT GCT TGT T	CT TCA TCC CTG	GGC TGT TGG	GAG GAA 3180
	3190	3200	3210	3220	3230	3240
3181 CAG ATG	AGA CAG TGG	CTA TAG AAG	CAC TTG GAA A	AT GCA CTT GTC	CIG III IGI	AAA ATA 3240
	3250	3260	3270		3290	3300
3241 AAA AGG	TAT TAA ATG	TGT ATT TCT	GCC ATG TAC C	TA ATG ATT ATT	CAG TGC GTA	TAT ATC 3300
	3310	3320	3330	3340	3350	3360
3301 TGA AAA	GTC ATG TTG	CAA ATC TTT	CTG TGA AAC A	GA TGC TAT TIT	AAA TTC ACT	GGG AGA 3360
	3370	3380	3390	3400		3420
3361 AAT ATC	CTA TTT AAA	GTA ATC TAT	AGT AAT TTC T	TAA TAT ATT	AAA AAT ATA	TTT GTA 3420
·	3430	3440	3450			
3421 AAG TCG	AAA AAA AAA	AAA AAA AAA	AAA AAA AAA A	AA AAA 3459		

FIG. 2D

1 1 1	MAGGPGPGEPAAPGAOHFLYEVPPWVMCRFYKVMD MSGVQTAEAEAQAQNQANGNRTRSRSHLDNTMAIRLLPLPVRAQLCAHLD MACDDLCRNMD MACDDLCRNMD	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11XX IRAK-2 Beta
36 51 22 22	ALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWINR-NA ALDVWQQLATAVKLYPDQVEQISSQKQRGRSASNEFLNIWGGQYNH ALSEWDWMEFASYVITDLTQLRKI-KSMERVQGVSITRELLWWWGMR-QA ALSEWDWMEFASYVITDLTQLRKI-KSMERVQGVSITRELLWWWGMR-QA	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11XX IRAK-2 Beta
79 97 70 70	RVADLVHILTHLOLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAE TVOTLFALFKKLKLHNAMRLIKDYVSEDLHKYIPRSVPTISE TVQQLVDLLCRLELYRAAQIILNWKPAPEIRCPIPAFPDSVKPEKPLAAS TVQQLVDLLCRLELYRAAQIILNWKPAPEIRCPIPAFPDSVKPEKPLAAS	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
129 139 120 120	AWSPRKLPSSASTFLSPAFPGSQTHSGPELGLVPSPASLWPPPLRAAPDSSAKVNNGPPFPSSSGVSNSNNNRTSTTATEEIPSLEVRKAEDEQEEGQPVRMATFPGPGSSPARAHQPAFLQPPEEDAPHSLRSDLVRKAEDEQEEGQPVRMATFPGPGSSPARAHQPAFLQPPEEDAPHSLRSDL	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
172 182 170 170	PSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGTHNESEELKIGEGSLGNIHISTVQRAAESLLEIDYAELENATDGWSPDNRLGQG PTSSDSKDFSTSIPKQEKLLSLAGDSLFWSEADVVQATDDFNQNRKISQG PTSSDSKDFSTSIPKQEKLLSLAGDSLFWSEADVVQATDDFNQNRKISQG	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
222 223 220 220	GFGCVYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRH GFGDVYRGKWKQLDVAIKVMNYRSPNIDQKMVELQQSYN-ELKYLNSIRH TFADVYRGHRHGKPFVFKKLRETACSSPGSIERFFQAELQICLRCCH TFADVYRGHRHGKPFVFKKLRETACSSPGSIERFFQAELQICLRCCH	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
269 272 267 267	PNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRLHCQTQACPPLSWPQRLDNILALYGYSIKGQKPCLVYQLMKGGSLEARLRAHKAQNPLPALTWQQRFPNVLPVLGFCAARQFHSFIYPYMANGSLQDRLQGQG-GSEPLPWPQRVPNVLPVLGFCAARQFHSFIYPYMANGSLQDRLQGQG-GSDPLPWPQRV	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
317 322 314 314	DILLGTARAIQFLHQD-SPSLIHGDIKSSNVLLDERLTPKLGDFGLARFS SISLGTARGIYFLHTARGTPLIHGDIKPANILLDOCLQPKIGDFGLVR SICSGLLCAVEYLHGLEIIHSNVKSSNVLLDQNLTPKLAH-PMAHLC SICSGLLCAVEYLHGLEIIHSNVKSSNVLLDQNLTPKLAH-PMAHLC	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta
366 370 360 360	RFAGSSPSQSSMVARTQTVRGTLAYLPEEYIKTGRLAVDTDTFSFGVVVLEGPKSLDAVVEVNKVFGTKIYLPPEFRNFRQLSTGVDVYSFGIVLLPVNKRSKYTMM-KTHLLRTSAAYLPEDFIRVGQLTKRVDIFSCGIVLAPVNKRSKYTMM-KTHLLRTSAAYLPEDFIRVGQVTKRVDIFSCGIVLA	IRAK Pelle HNFIP11X IRAK-2 Alpha HNFIP11X IRAK-2 Beta

416 416 407 407	ETLAGORAVKTHGARTK <mark>YLKDLVEE</mark> AEEAGVA <mark>LRS</mark> TQSTLQAGLAADAW EV <mark>F</mark> TG-ROVTDRVPENETKKNLLD	IRAK Pelle HNFIP11X HNFIP11X	•
466 445 454 454	AAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRAKRRPPMTQVY RQNR-MELLEKHLAAPMGKELDMCMC ICQKYLEKGAGRLPEDCAEALATAACLCLRRRNTS ICQKYLEKGAGRLPEDCAEALATAACLCLRRRNTS	IRAK Pelle HNFIP11X HNFIP11X	•
516 470 489 489	ERLEKLQAVVAGVPGHLEAASCIPPSPQENSYVSSTGRAHSGAAPWQPLAAIEAGLHRGRETLLPWSGLSLQEVCGSVAAVEERLRGRETLLPWSGLS	IRAK Pelle HNFIP11X HNFIP11X	•
566 477 517 517	APSGASAQAAEQLQRGPNQPVESDESLGGLSAALRSWHLTPSCPLDPAPL EGTGSSSNTPEETDDVDNSSLDASSSMSVAPWA-GAATPLLPT EGTGSSSNTPEETDDVDNSSLDASSSMSVAPWA-GAATPLLPT	IRAK Pelle HNFIP11X HNFIP11X	
616 477 559 559	REAGCPQGDTAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPACTALDPQDRPSENGEGRLRVIVGREADSSSEACVGLEPPQDVTENGEGRLRVIVGREADSSSEACVGLEPPQDVTETSWQIEINEA	IRAK Pelle HNFIP11X HNFIP11X	•
666 488 591 602	RQKMVQKLALYEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS MNAVLKRFEPFVTD KRKLMENILLYKEEKVDSIELFGP	IRAK4 Pelle HNFIP11X HNFIP11X	

FIG.3B



100 - IL-IRs | IL-IRs | IRAK-2 (87-501) | IRAK-2 (1-96) | IRAK-2 (97-590) | IRAK-2

FIG. 4B

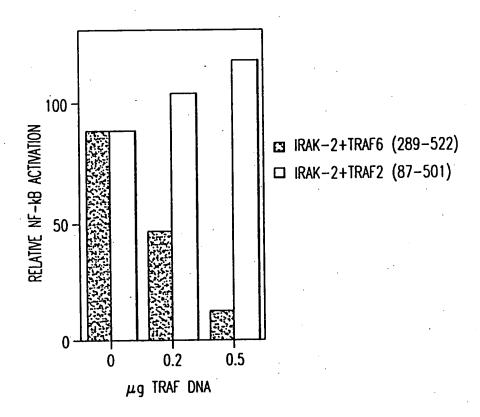
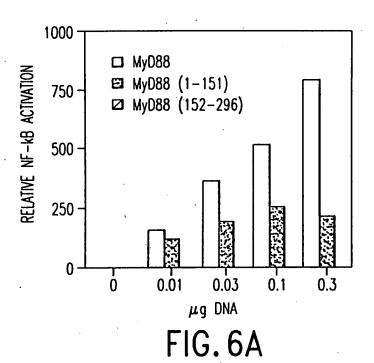
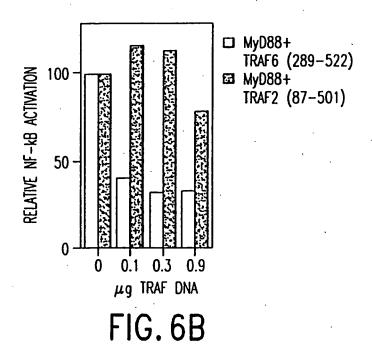
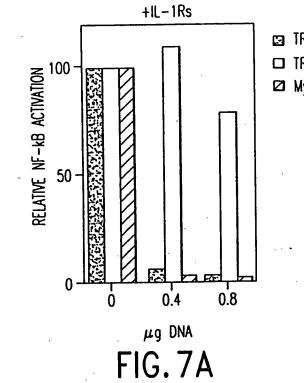


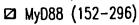
FIG.5

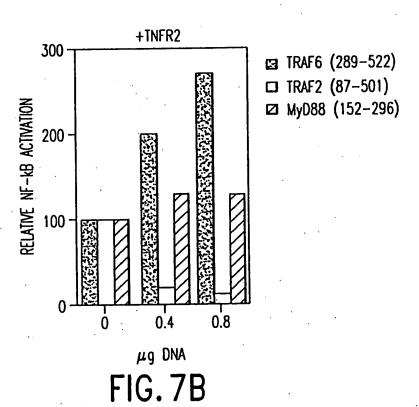


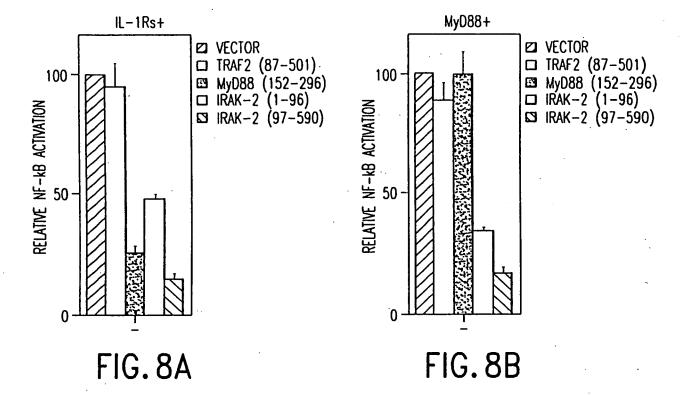


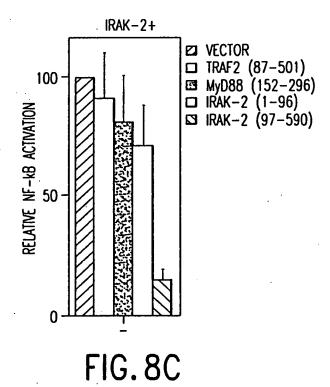


☐ TRAF6 (289-522) ☐ TRAF2 (87-501)









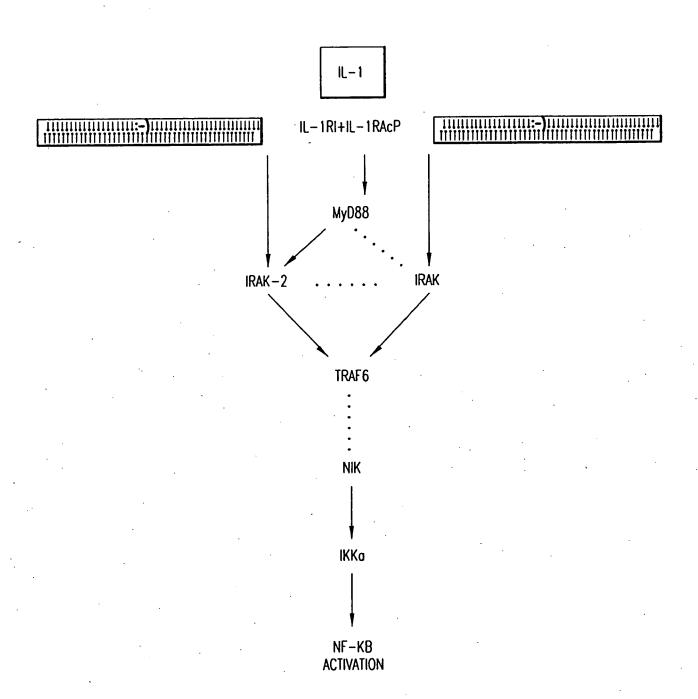
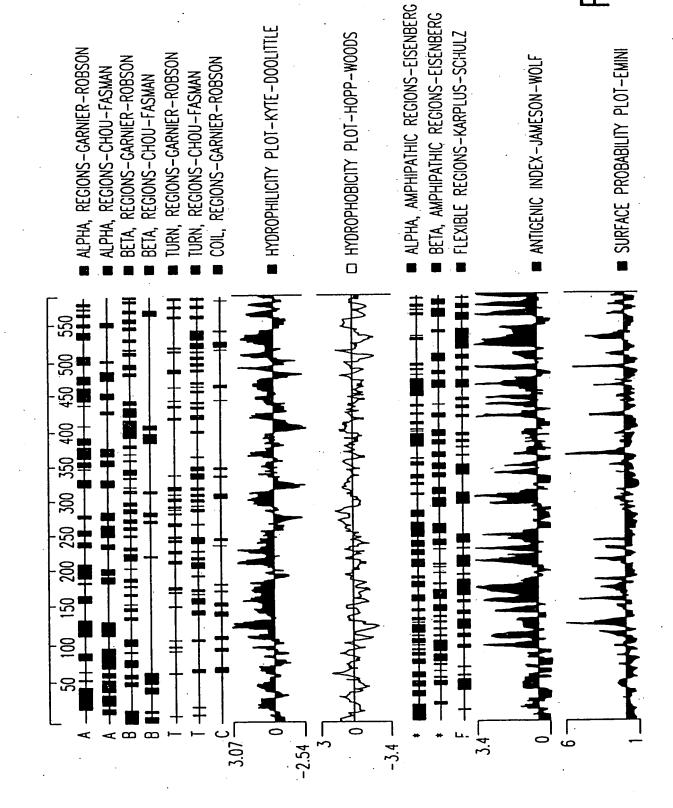
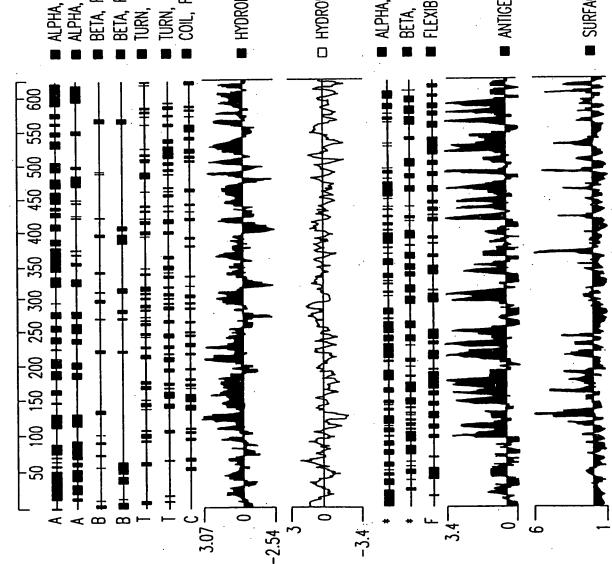


FIG.9







ALPHA, REGIONS-GARNIER-ROBSON ALPHA, REGIONS-CHOU-FASMAN

BETA, REGIONS-GARNIER-ROBSON

BETA, REGIONS-CHOU-FASMAN

TURN, REGIONS-GARNIER-ROBSON

TURN, REGIONS-CHOU-FASMAN COIL, REGIONS-GARNIER-ROBSON

■ HYDROPHILICITY PLOT-KYTE-DOOLITTLE

☐ HYDROPHOBICITY PLOT-HOPP-WOODS

ALPHA, AMPHIPATHIC REGIONS-EISENBERG

BETA, AMPHIPATHIC REGIONS-EISENBERG

FLEXIBLE REGIONS-KARPLUS-SCHULZ

■ ANTIGENIC INDEX-JAMESON-WOLF

■ SURFACE PROBABILITY PLOT-EMINI